

SEQUENCE LISTING

<110> GIMENO, Ruth

<120> METHODS FOR THE TREATMENT OF METABOLIC
DISORDERS, INCLUDING OBESITY AND DIABETES

<130> MNI-220

<150> 60/271,655

<151> 2001-02-26

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<221> CDS

<222> (44)...(1129)

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Cys Ala Arg Ala Ala Gly Asp Ala Pro Leu Arg Ser Leu Glu Gln Ala
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aac cgc acc cgc ttt ccc ttc ttc tcc gac gtc aag ggc gac cac cgg 151
Asn Arg Thr Arg Phe Pro Phe Phe Ser Asp Val Lys Gly Asp His Arg
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ctg gtg ctg gcc gcg gtg gag aca acc gtg ctg gtg ctc atc ttt gca 199
Leu Val Leu Ala Ala Val Glu Thr Thr Val Leu Val Leu Ile Phe Ala
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gtg tcg ctg ctg ggc aac gtg tgc gcc ctg gtg ctg gtg gcg cgc cga 247
Val Ser Leu Leu Gly Asn Val Cys Ala Leu Val Leu Val Ala Arg Arg
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cga cgc cgc ggc gcg act gcc tgc ctg gta ctc aac ctc ttc tgc gcg 295
Arg Arg Arg Gly Ala Thr Ala Cys Leu Val Leu Asn Leu Phe Cys Ala
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gac ctg ctc ttc atc agc gct atc cct ctg gtg ctg gcc gtg cgc tgg 343
Asp Leu Leu Phe Ile Ser Ala Ile Pro Leu Val Leu Ala Val Arg Trp
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Thr Glu Ala Trp Leu Leu Gly Pro Val Ala Cys His Leu Leu Phe Tyr
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	ggc cct ggg cgg cgg gcg cgg gca gtg ctg ctg gcg ctc atc tgg ggc			535
	Gly Pro Gly Arg Arg Ala Arg Ala Val Leu Leu Ala Leu Ile Trp Gly			
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	Tyr Ser Ala Val Ala Ala Leu Pro Leu Cys Val Phe Phe Arg Val Val			
	165	170	175	180
	cgc caa cgg ctc ccc ggc gcc gac cag gaa att tgc att tgc aca ctg			631
	Pro Gln Arg Leu Pro Gly Ala Asp Gln Glu Ile Ser Ile Cys Thr Leu			
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	Thr Leu Asn Phe Leu Val Pro Gly Leu Val Ile Val Ile Ser Tyr Ser			
		215	220	225
	aaa att tta cag atc aca aag gca tca agg aag agg ctc acg gta agc			775
	Lys Ile Leu Gln Ile Thr Lys Ala Ser Arg Lys Arg Leu Thr Val Ser			
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	ctg gcc tac tgc gag agc cac cag atc cgc gtg tcc cag cag gac ttc			823
	Leu Ala Tyr Ser Glu Ser His Gln Ile Arg Val Ser Gln Gln Asp Phe			
		245	250	255
	cgg ctc ttc cgc acc ctc ttc ctc ctc atg gtc tcc ttc ttc atc atg			871
	Arg Leu Phe Arg Thr Leu Phe Leu Leu Met Val Ser Phe Phe Ile Met			
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	Trp Ser Pro Ile Ile Ile Thr Ile Leu Leu Ile Leu Ile Gln Asn Phe			
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	aag caa gac ctg gtc atc tgg ccg tcc ctc ttc ttc tgg gtg gtg gcc			967
	Lys Gln Asp Leu Val Ile Trp Pro Ser Leu Phe Phe Trp Val Val Ala			
		295	300	305
	ttc aca ttt gct aat tca gcc cta aac ccc atc ctc tac aac atg aca			1015
	Phe Thr Phe Ala Asn Ser Ala Leu Asn Pro Ile Leu Tyr Asn Met Thr			
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	ctg tgc agg aat gag tgg aag aaa att ttt tgc tgc ttc tgg ttc cca			1063
	Leu Cys Arg Asn Glu Trp Lys Lys Ile Phe Cys Cys Phe Trp Phe Pro			
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	gaa aag gga gcc att tta aca gac aca tct gtc aaa aga aat gac ttg			1111
	Glu Lys Gly Ala Ile Leu Thr Asp Thr Ser Val Lys Arg Asn Asp Leu			
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<212> PRT

<213> Homo sapiens

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Gly Asp His Arg Leu Val Leu Ala Val Glu Thr Thr Val Leu Val
          35          40          45
Leu Ile Phe Ala Val Ser Leu Gly Asn Val Cys Ala Leu Val Leu
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Val Ala Arg Arg Arg Arg Arg Gly Ala Thr Ala Cys Leu Val Leu Asn
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Leu Phe Cys Ala Asp Leu Leu Phe Ile Ser Ala Ile Pro Leu Val Leu
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Leu Leu Phe Tyr Val Met Thr Leu Ser Gly Ser Val Thr Ile Leu Thr
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Leu Ala Ala Val Ser Leu Glu Arg Met Val Cys Ile Val His Leu Gln
          130          135          140
Arg Gly Val Arg Gly Pro Gly Arg Arg Ala Arg Ala Val Leu Leu Ala
          145          150          155          160
Leu Ile Trp Gly Tyr Ser Ala Val Ala Ala Leu Pro Leu Cys Val Phe
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Phe Arg Val Val Pro Gln Arg Leu Pro Gly Ala Asp Gln Glu Ile Ser
          180          185          190
Ile Cys Thr Leu Ile Trp Pro Thr Ile Pro Gly Glu Ile Ser Trp Asp
          195          200          205
Val Ser Phe Val Thr Leu Asn Phe Leu Val Pro Gly Leu Val Ile Val
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Gln Gln Asp Phe Arg Leu Phe Arg Thr Leu Phe Leu Leu Met Val Ser
          260          265          270
Phe Phe Ile Met Trp Ser Pro Ile Ile Thr Ile Leu Leu Ile Leu
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Ile Gln Asn Phe Lys Gln Asp Leu Val Ile Trp Pro Ser Leu Phe Phe
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Trp Val Val Ala Phe Thr Phe Ala Asn Ser Ala Leu Asn Pro Ile Leu
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tcgatgaccc tcttgacagc cagcagcgcg cgcagctccg ccatcttccc ggacgcgtgg 180
gccgggagcc cggc atg tcc cct gag tgt gca cag acg acg ggc cct ggt 230
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Pro Ser His Thr Leu Asp Gln Val Asn Arg Thr His Phe Pro Phe Phe
15 20 25
tcg gat gtc aag ggc gac cac cgg ttg gtg ttg agc gtc gtg gag acc 326
Ser Asp Val Lys Gly Asp His Arg Leu Val Leu Ser Val Val Glu Thr
30 35 40
acc gtt ctg gga ctc atc ttt gtc gtc tca ctg ctg ggc aac gtg tgt 374
Thr Val Leu Gly Leu Ile Phe Val Val Ser Leu Leu Gly Asn Val Cys
45 50 55 60
gct cta gtg ctg gtg gcg cgc cgt cgg cgc cgt ggg gcg tca gcc agc 422

Ala Leu Val Leu Val Ala Arg Arg Arg Arg Arg Gly Ala Ser Ala Ser
65 70 75

ctg gtg ctc aac ctc ttc tgc gcg gat ttg ctc ttc acc agc gcc atc 470
Leu Val Leu Asn Leu Phe Cys Ala Asp Leu Leu Phe Thr Ser Ala Ile
80 85 90

cct cta gtg ctc gtc gtg cgc tgg act gag gcc tgg ctg ttg ggg ccc 518
Pro Leu Val Leu Val Val Arg Trp Thr Glu Ala Trp Leu Leu Gly Pro
95 100 105

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Val Val Cys His Leu Leu Phe Tyr Val Met Thr Met Ser Gly Ser Val
110 115 120

acg atc ctc aca ctg gcc gcg gtc agc ctg gag cgc atg gtg tgc atc 614
Thr Ile Leu Thr Leu Ala Val Ser Leu Glu Arg Met Val Cys Ile
125 130 135 140

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145 150 155

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Ala Leu Leu Ala Phe Ile Trp Gly Tyr Ser Ala Leu Ala Leu Pro
160 165 170

ctc tac atc ttg ttc cgc gtg gtc ccg cag cgc ctt ccc ggc ggg gac 758
Leu Tyr Ile Leu Phe Arg Val Val Pro Gln Arg Leu Pro Gly Gly Asp
175 180 185

cag gaa att ccg att tgc aca ttg gat tgg ccc aac cgc ata gga gaa 806
Gln Glu Ile Pro Ile Cys Thr Leu Asp Trp Pro Asn Arg Ile Gly Glu
190 195 200

atc tca tgg gat gtg ttt ttt gag act ttg aac ttc ctg gtg ccg gga 854
Ile Ser Trp Asp Val Phe Phe Glu Thr Leu Asn Phe Leu Val Pro Gly
205 210 215 220

ctg gtc att gtg atc agt tac tcc aaa att tta cag atc acg aaa gca 902
Leu Val Ile Val Ile Ser Tyr Ser Lys Ile Leu Gln Ile Thr Lys Ala
225 230 235

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Ser Arg Lys Arg Leu Thr Leu Ser Leu Ala Tyr Ser Glu Ser His Gln
240 245 250

atc cga gtg tcc caa caa gac tac cga ctc ttc cgc acg ctc ttc ctg 998
Ile Arg Val Ser Gln Gln Asp Tyr Arg Leu Phe Arg Thr Leu Phe Leu
255 260 265

ctc atg gtt tcc ttc ttc atc atg tgg agt ccc atc atc atc acc atc 1046
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270 275 280

ctc ctc atc ttg atc caa aac ttc cgg cag gac ctg gtc atc tgg cca 1094
Leu Leu Ile Leu Ile Gln Asn Phe Arg Gln Asp Leu Val Ile Trp Pro
285 290 295 300

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 335 340 345

acg tct gtc agg cga aat gac ttg tct gtt att tcc agc taa 1280
 Thr Ser Val Arg Arg Asn Asp Leu Ser Val Ile Ser Ser *
 350 355 360

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 Val Val Arg Trp Thr Glu Ala Trp Leu Leu Gly Pro Val Val Cys His
 100 105 110
 Leu Leu Phe Tyr Val Met Thr Met Ser Gly Ser Val Thr Ile Leu Thr
 115 120 125
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 130 135 140
 Arg Gly Leu Ser Gly Pro Gly Arg Arg Thr Gln Ala Ala Leu Leu Ala
 145 150 155 160
 Phe Ile Trp Gly Tyr Ser Ala Leu Ala Ala Leu Pro Leu Tyr Ile Leu
 165 170 175
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 180 185 190
 Ile Cys Thr Leu Asp Trp Pro Asn Arg Ile Gly Glu Ile Ser Trp Asp
 195 200 205
 Val Phe Phe Glu Thr Leu Asn Phe Leu Val Pro Gly Leu Val Ile Val
 210 215 220
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 225 230 235 240
 Leu Thr Leu Ser Leu Ala Tyr Ser Glu Ser His Gln Ile Arg Val Ser
 245 250 255
 Gln Gln Asp Tyr Arg Leu Phe Arg Thr Leu Phe Leu Leu Met Val Ser
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305	310	315
Tyr Asn Met Ser Leu Phe Arg Asn Glu Trp Arg Lys Ile Phe Cys Cys		
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